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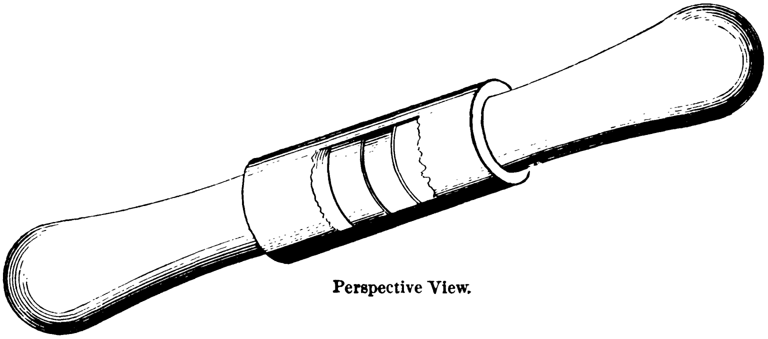
COVER-GLASS CLEANER.

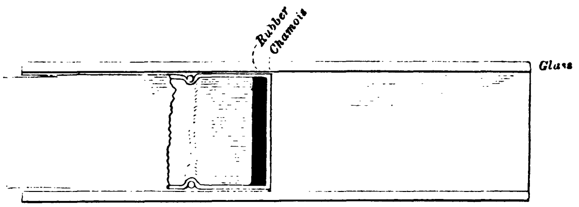
Frank L. James, Ph. D., M. D., St. Louis, Mo.

I desire to present to the Society a new device for a cover-glass cleaner which I have found very efficient and convenient, especially for cleaning and polishing extremely thin covers.

It consists of three parts, viz., a piece of glass tubing of sufficient internal diameter to receive the glass to be cleaned, and two plungers substantially as shown in the accompanying figure herewith submitted.



Perspective View.



Section.

The tubing which I use has an internal diameter of $\frac{7}{8}$ inch, and should be of good stout glass. It need not be over three inches in length, though four or five would be better. The plungers should be long enough to penetrate the tube half way and leave a good hold for the hands. They may be made of any soft or hard wood, and should be a little smaller than the diameter of the tubing. One end of each must be cut very smoothly and exactly at right angles with the axis. Cut out from a sheet of india-rubber, which should be at least a tenth of an inch in thickness, two disks of the same size as the end of the plunger, and attach one to the smooth end of each plunger. This is best done with a little marine glue, though any good cement will do. A piece of chamois large enough to go over the rubber and be fastened to the plunger completes the outfit. A shoulder should be cut on the end of the plunger to receive the thread or wire used to bind the chamois to its place.

The method of using the apparatus is self-evident. The cover to be cleaned is laid on the end of one of the plungers, and inserted into one end of the tube. The other plunger is inserted from the other end of the tube, and friction is made by rotating the plungers. If properly made, the full strength may be exerted on the thinnest cover-glass without breaking it.